

Transforming Construction with Off-site Methods and Technologies - TCOT 2026 Conference

Presentation Programme*

19 August 2026						
Time	Session	Paper ID	Paper Title	Session	Paper ID	Paper Title
11:00 - 12:30	A1	1108	Benchmarking Off-Site Construction Readiness in Canada: A Survey-Based Assessment of Organizational Maturity Across Design, Manufacturing, and Construction	B1	1107	Creation of Standardised Residential Construction Details for Light-gauge Steel Panelised Off-site Construction
		1151	Growing Modern Methods of Construction into an Industry		1121	Artificial Intelligence Based Estimation of Offsite Panel Requirements in Building Construction: Challenges and Opportunities
		1103	Governing the Next Generation of Off-Site Construction: A Three-Pillar Model for Technology-Driven Delivery		1124	A System-Aware Automation Adoption Framework for Off-Site Manufacturing Plants
		1142	Transitioning to Offsite Construction: Capability-Resilience-Alignment or Abject Failure?		1111	VR and BIM Integration Framework for H&S Management during Design Phase
		1112	Addressing Decision Fragmentation in Off-Site Construction: A Lifecycle-Oriented Decision Support System Architecture		1139	Perception-Responsive Adaptive Virtual Reality for Construction Hazard Recognition: A Feasibility Study
12:30 - 13:30	LUNCH BREAK					
13:30 - 15:00	PANEL DISCUSSION					
15:00 - 16:30	A2	1149	Multi-Objective Workforce Allocation For Off-Site Construction Assembly Using Parallel Simulated Annealing	B2	1119	Improving the Accuracy of Resource Estimation in Structural Steel Assembly Using a Hybrid Parametric and AI-Assisted Framework
		1138	Lean Management Model for Sustainable Project Delivery in Egypt: Implications for Off-site Construction Adoption		1117	Advanced Materials' Life Cycle Assessments: LCA Of Alternative Binders For Engineered Wood Products
		1125	CITB Impact Fund – Timber in Construction Skills		1118	Supply Chain Contingency Estimation: Calculation Methods Towards Better Management Of Risk And Cost-Overrun
		1127	Off-Site Construction in Mega-Development Projects: The Strategic Role of the Entrepreneurial Business Developer Intermediary (EBDI)		1129	Integration of Building Information Modelling (BIM) and Virtual Reality (VR) for Collaborative Design Review: A Framework and Case Study
					1137	A Modular Management Information System for Real-Time Rail Logistics, Offsite Supply Chain Integration, and Just-In-Time Inventory Optimisation
20 August 2026						
Time	Session	Paper ID	Title	Session	Paper ID	Title
11:00 - 12:30	A3	1145	Night Shift in Offsite and Hybrid Construction Delivery: Drivers, Challenges and a Decision Support Framework	B3	1110	Load Transfer Construction Method (LTCM) - a Superstructure Platform System
		1148	Mass Timber Construction in South Africa: Assessing Perceived Sustainability Benefits and Industry Adoption Challenges		1120	Using Off-Site Construction as an Integral Component of Mining and Mineral Processing Site Closure Rehabilitation Planning
		1126	BIM-Enabled Quality Control Framework for Off-Site Construction (OSC)		1141	Cable Driven Parallel Robots for Rapid Post Disaster Housing Construction in Displaced Communities
		1115	Best Procurement Practices for Off-Site Construction: A Systematic Literature Review		1133	Mapping the Knowledge Structure and Research Trends in Construction Automation: A Global Bibliometric Review
					1134	Exploring Trends on Automation of Construction Processes: Extent and Enablers in Nigeria
12:30 - 13:30	LUNCH BREAK					
13:30 - 15:00	PANEL DISCUSSION					
15:00 - 16:30	A4	1150	Revisiting Cost Forecasting Methods in Construction Projects	B4	1136	AI, BIM And Achieving The SDGs: Exploring The Gaps For A Sustainable Construction Industry
		1147	A Decision-Support Framework for Sustainable Urban Infrastructure Maintenance Using the Analytical Hierarchy Process		1132	Blockchain Adoption in AI-Enabled Quantity Surveying: Transforming Construction Cost Management
		1140	Leveraging Blockchain Innovation for Improving Transparency and Integrity in Public Infrastructure Procurement Process in Nigeria		1131	Digital-Enabled Off-Site Construction for Disaster-Resilient Built Environments: A Systematic Review and Conceptual Framework

*This is a draft programme. The Organising Committee reserves the right to amend session titles, timings, speakers and session allocations as necessary.